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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/786,252	08/13/2001	Gerard Wolfe Sormann	64194-9004	8084
23510	7590	05/06/2004	EXAMINER	
MICHAEL BEST & FRIEDRICH, LLP ONE SOUTH PINCKNEY STREET P O BOX 1806 MADISON, WI 53701			BOCKELMAN, MARK	
			ART UNIT	PAPER NUMBER
			3762	

DATE MAILED: 05/06/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/786,252	Applicant(s) SORMANN ET AL.	
	Examiner Mark W Bockelman	Art Unit 3762	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 4-08-2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 and 7-34 is/are pending in the application.
- 4a) Of the above claim(s) 14-25 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5, 7-13 and 26-32 is/are rejected.
- 7) ☒ Claim(s) 33 and 34 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Art Unit: 3762

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4-08-2004 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5, 7-9, 11-13, 32 rejected under 35 U.S.C. 102(b or e) as being anticipated by Markowitz et al USPN 5,626,630 or Sun et al USPN 5,861,019. Both references teach a telemetry system that uses transmission frequencies in the .5Ghz – 5Ghz frequency range using microstrip antennas.. Each implanted device is disclosed as a pacemaker with body sensing functions that are retrieved during implant interrogation. Pacemakers provide current pulse to the cardiac muscle.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-5, 7-13, 26-31 are rejected under 35 U.S.C. 103(a) as obvious over Cimochofski et al USPN 5,967,986 in view of Markowitz et al USPN 5,626,630 or Sun et al USPN 5,861,019 .

Cimochofski teaches a primary controller (101-fig12, 90-90" figs 7-10) an antenna based stent device 30 – 30" that receives power and transducer selection data from the primary controller to select various transducers to monitor various characteristics such as flow and transmit the results back to the primary controller (thus possessing a receiver) and monitoring console 101. Cimochofski states that for deep implants up to 100 MHz carrier frequencies may be used and for shallow implants much higher frequencies are used. Cimochofski suggests that up to 1 Ghz may be used with no anticipated problems (see column 12 lines 23-45). Although Cimochofski teaches the use of coil to coil inductive coupling applicant excludes such from the claims and thus differs in his type of antenna. Markowitz and Sun et al teach microstrip antennas for operating within the .5-5 Ghz transmission frequency range. To have used the well known alternative antenna transmission systems taught in the Markowitz and Sun

references to achieve data/power transmission would have been an obvious substitution of equipment in view of the teachings of Sun and Markowitz. Each antenna system is omnidirectional.

In regard to claim 8, the examiner considers the turning on an off of the transducers via the MUX switch as called for by the controller to be the result of the generation of pulses of current by the antenna based device. The Doppler embodiment requires pulsed transducer excitation as well.

Although it is not clear as to what applicant means by spring-based stent, the Cimochoowski et al device is made of conventional stent materials which may be expanded and would have some degree of compressability/resiliency. In the event that applicant considers the stent to act as a spring, the examiner takes official notice that many such stents are old and well known and that a reading of Cimochoowski would convey to the reader that any of these types of stents may be used.

Figure 8 Column 13 lines 49+ teach an embodiment using and intermediate set of coils (repeater device) as called for in applicant's claim 31.

Claim 32 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cimochoowski et al. USPN 5,967,986 in view of Markowitz et al USPN 5,626,630 or Sun et al USPN 5,861,019 as applied to claims 1-5, 7-13 and 26-31 and further in view of Mehra USPN 5,170,802. To have used the stent device of Cimochoowski et al for pacing and thus stimulating muscle as recited in applicant's claim 32 would have been obvious in view of

Mehra USPN 5,170,802 which teaches the use of stents for pacing.

Art Unit: 3762

Allowable Subject Matter

Claims 33-34 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments with respect to claims 1-5, 7-13, 26-32 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark W Bockelman whose telephone number is (703)-308-2112. The examiner can normally be reached on Monday - Thursday 10-8:30.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Sykes can be reached on (703) 308-5181. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3762

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MWB

May 3, 2004


MARK BOCKELMAN
PRIMARY EXAMINER